GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.

nucleic search, using frame_plus_p2n model OM protein

Pun on:

(without alignments) 137.557 Million cell updates/sec January 16. 2003, 16:51:22 ; Search time 212.829 Seconds

US-09-856-070-19 65 Title: Perfect score:

1 KEELMIRLODYPE 13 Sequence:

Scoring table:

0.0 0.5 0.5 0.5 PLOSUM62 Xqapop 10.0 , Xqapext. C Yqapop 10.2 , Ygapext (Fgapop 6.0 , Fgapext (Delop 6.0 , Delext

2185239 segs, !!? Gaggleg residies Searched: Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Listing first 45 summaries Post-processing: Minimum Match 0% Maximum Match 100%

Command line parameters

Database :

/SIDSZ/gogdata/geneseq/genesequerah/ww2000 DAT */SIDSZ/gogdata/genesequeremen.yww2001w DAT * US2/gegdata/geneseg/genesegn-embt/nazu018.DAT:* *:JVC /SIDS2/gcgdata/geneseg/genesegn=embl/NA1986.DAT:*/SIDS2/gcgdata/genesegn/genesegn=embl/NA1987.DAT:*/SIDS2/gcgdata/genesegn-embl/NA1987.dAT:*/SIDS2/gcgdata/genesegn-embl/NA1989.DAT:*/SIDS2/gcgdata/genesegn/genesegn-embl/NA1989.DAT:* * TAR BORGAV /SIDS2/graditia/denosog/genesedn-embi/NADBOD DAI:* . DAT: * DAT: * DAT: * DAT: * /SIDS2/qcqdata/qeneseq/qeneseqn-embl/NA1999.DAT:* /SIDS2/gcgdata/geneseq/geneseqn-embi/NA1994.DAI:* /SIDS2/geginta/genesel/geneseyn-emil/nal995.DaT:* P.A.T. * /SIDS2/graddata/gradssey/gradesseyn empl/National nare-/SIDS2/gryddata/gradessey/gradesseyn-embl/Na1984 fatt.* /SIDS2/gryddata/gradessey/gradesseyn-embl/NA1985 NAT+* /STDSD/gcgda:a/geneseg/genesegn.embl/NAL9#LIAFF* /STDS2/gcgdata/genesegl/genesegn.embl/NAL9#2.hAr;* /SIDS2/qcqdara/qeneseq/qeneseqn-embi/NA19หิก DAL・ <u>.</u> /SIDS2/gegdata/geneseg/genesegn-enhi/NA1990. 24A1996. /SIDS2/qcqdata/qeneseq/qeneseqn-embl/NA1997 /SIDS2/gcgdata/geneseq/geneseqn-embl/NAlvuA . NA1991 /SIDS2/gcadata/geneseq/geneseqn-embl/NA1993 /S10S2/gegdata/geneseg/genesegn-embl haus abesesebbenesses by a repolicy (28018). ABOUT OSSESSES CONTRACTOR (STORTS) (STANDARD) N_Geneseq_101002:* 114: 115: 117: 118: 120: 121: 121: 121: 131: 10:

Pred. Not is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1 AAH33385 AAH33385 Standard, LENA, 2595 BP.

AAH33385;

03 SEP 2001 (first catry)

Human colon cancer antigen encoding conn SEQ ID NO:441.

Homas, and an expect, and a expect antigen, diagresis, detection; colorectal carcinoma; ss.

Homo sapiens.

W1250122920 A2

05-APR-2001.

```
cancer associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antiquens. The colon cancer antiquens have cytostalic activity and can be used in gene therapy and vactine production. N and P may be used in the prevention, diagnosis and treatment of discuses associated with inappropriate P expression. For example, N and P may be used in the prevention, cytostalic activity of P by expression in a patient is genome that allect the activity of P by expressing in a fatient is genome that allect the patients own production of P. Additionally, N may be used to produce the colon cancer associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colonectal carcinomas and cancers. AAH77196 to AAH37294
                                                                                                                                                                                                                                                                         Nucleic acids encoding 4277 human colon cancer associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; osteobiast; stem cell differentiation; bone tissue deposition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          missing at time of publication, meaning no sequences are present for
SEC 1D NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and AAB77789 represent sequences used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                   AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N.B. Pages 666 to 682 and page 7053 of the sequence listing were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human osteoblast differentiation related cDNA SEQ ID NO 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2595 BP; 742 A; 562 C; 714 G; 567 T; 10 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         658 AAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LysGluGluLeuMetLeuArqLeuGlnAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches:
Conservative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches:
                                                                                                                                                                       Rosen CA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 2539-2540; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-856-070-19 (1-13) x AAH33385 (1-2595)
                                                                                                                                                                       Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABU88181 standard; cDNA; 2930 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              osteoporosis; osteopathic; ss.
                    28 - SEP - 2000; 2000WC - US26524.
                                                                                                                            (HUMA-) HUMAN GENOME SCL INC
                                                                                 99US-0163280.
                                                             99HS-0157137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.00473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               65.00
                                                                                                                                                                       Barash SC.
                                                                                                                                                                                                              WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity:
                                                                                                                                                                                                                                       P-PSDB; AAG73954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MO20075041-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
                                                                                 03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                          29-SEP-1999-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27 - JUN- 2002
                                                                                                                                                                       Ruben SM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABQ88181;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             АНД88181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ś
```

```
Fanconi syndrome or librous dysplasia. The present sequence is that of an osteoblast differentiation associated cDNA marker of the invention. Note. The sequence data for this patent did not form part of the printed Specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                          Use of genes and their expression profiles associated with esteoblast differentiation for screening modulators bone formation, for diagnosing or treating e.g. esteoporosis, or as markers for the differentiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           osteoblast formation or osteoporosis; or (c) treating or monitoring treatment of the conditions cited in (b), or monitoring the progression of bone tissue deposition.

Specific conditions include postmenopausal osteoporosis, glucocorticoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ostecporosis of male ostecporosis, ostecpenia, ostecodystrophy, drug-findeced abnormalities in bone formation or bone loss, conditions that involve altered bone metabolism (e.g. idiopathic juvenile osteoporosis), skeletal disease linked to breast cancer, mastocytosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to genes and their expression profiles are used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               screening modulators of precursor stem cell differentiation into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          osteoblasts, or bone tissue deposition;
(b) diagnosing abnormal deposition of bone tissue, abnormal rate of
                                                                                                                                                                                                                       Axelrod DW, Chok JS, Jaiswal N, Einstein E, Houghton A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human, ss, gene, lung cancer, eytostatic; tumour; vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1, SEQ ID NO 88, 78pp · Sequence disting; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2930 BP; 793 A; 658 C; 821 G; 658 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2930
13
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human lung cancer associated full length cDNA DMSM-51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 LysGluGluLeuMetLeuArqLeuGlnAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length.
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-856-070-19 (1-13) x ARQ88181 (1-2930)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK70285 standard; cDNA; 2930 BP
18-DEC-2001; 2001WO-US48276.
                                                    18-DEC-2000; 2000US-255882P.
24-APP-2001; 2001US-285691P.
                                                                                                                                                                   (PROC ) PROCTER & GAMBLE CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.00545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65.00
                                                                                                                                         (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                         WPI; 2002-557663/59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W7200224057-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aliqnment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABK70285;
                                                                                                                                                                                                                                                    Mertz L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X E X
```

```
20-SEP-2001; 2001WO-US42232.
      10-04-2009; 200008-239440P.
20-408-2001; 200108-301928P.
    32-SEP-2000; 2000MS-234837P
```

(CORI-) COMEXA COMP

Lodes M.T; Mohamath P, Benson DF.

WPI; 2002 372001/40

New taward line proteins and macheic acids encoding the proteins, useful as vaccines and for treating, preventing, diagnosing or monitoring lung

Claim 1; Page 159-160, 189pp; English.

polypeptide; a method for detecting the presence of a cancer in a patient; a fusion protein comprising at least the polypeptide; an oligonateleotide that hybridises to the polynucleotide under moderately stringent conditions, anethod for stimulating and/or expanding T cells specific for a tumour protein; an isolated T cell population comprising of component consisting of carriers and allowers a composition comprising of component consisting of carriers and immunostimulants, and a second component selected from the polynucleotides, proteins, and a second component selected from the polynucleotides, proteins, and as second component and peptides and antigen presenting cells expissing the polypeptide of methods for stimulating an immune response or treating converting at least one of the oligonacienties of, or an antibody and detection reagent consisting of a reporter group. The polypeptides and polynucleotides are useful as vaccines for the treatment or prevention of lung cancer, and for diagnosis and monitoring of such cancer. The polymericleotide polypeptide and antigen presenting cells can be The invention relates to as isolated polynacleutide comprising a sequence selected from 183 human DNA sequences (appearing as AMK70130 AMK70132), or their iragments, homologues, variants or complements and their encoded polyneptides. Also included are an expression vector comprising the polynucleotide operably linked to an expression control sequence; a host cell transformed or transfected with an expression vector of; an isolated antibody, or its antigen-binding fragment that specifically binds to the used to stimulate or expand I cells specific for a tumorous protein. The polynucleotides may be used as probes or primers for nucleic acid hybridisation, and in the preparation of ribozyme molecules for inhibiting expression of tumour polypeptides and proteins in tumour present sequence is one of the 183 lung cancer associated polynucleotides.

793 A; 658 C; 821 G, 658 T; 0 other, Sequence 2930 BF,

2930 13 0 0 0 0 Conservative: Mismatches: Matches: Length: indels: 100.00% 100.00% 100.00% 0.00545 65.00 Best Local Similarity: Percent Similarity: Alignment Scores: Query Match:

US-09-856-070-19 (1-13) x ABK/U285 (1-2930)

1 LysGluGluLeuMetLeuArgl.euGlnAspTyrGluGlu 13

RESULT 4 AHQ88180

ABQ88180 standard; cDNA; 3044 BP

18-SEP-2002 (first entry)

Human östeoblast differentiation related cunn SEQ 1D NO 87. XX DX

```
that involve altered bone metabolism (e.g. idiopathic juvenile osteoporosis), skeletal disease linked to breast cancer, mastocytosis, Fancori syndrome or fibrous dysplasia. The present sequence is that of an osteoblast differentiation associated cDNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (a) screening modulators of precursor stem cell differentiation into osteoblasts, or bone tissue deposition;
(b) diagnosing abnormal deposition of bone tissue, abnormal rate of osteoblast formation or osteoblast is or (c) treating or monitoring treatment of the conditions cited in (b), or monitoring the progression of bone tissue deposition.

Specific conditions include postmenopausal osteoporosis, glucocorticold osteoporosis or male osteoporosis, osteoporosis, or male osteoporosis, osteoporosis or male osteoporosis, bone formation of bone loss, conditions
                                                                                                                                                                                                                                                                                                                                                                                                                      Use of genes and their expression profiles associated with osteoblast differentiation for screening modulators bone formation, for diagnosing of treating e.g. osteoporosis, or as markets for the differentiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the invention relates to genes and their expression profiles are used
             Human, Osteoblast, stem cell differentiation; bone tissue deposition;
                                                                                                                                                                                                                                                                                                                                Jaiswal N, Elustein k, Houghton A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ 1D NO 87; 78pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3044 BP; 826 A; 687 C; 855 G; 675 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3044
13
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1147 AAGSAGSAGSTGSTGSTGSGSTGSACTATGAGGAG 1185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 hysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative.
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-U9-856-U7U-19 (1-13) X ARQB81BU (1-3044)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABK84552 standard; cDNA; 3044 BP
                                  ustemperesis; estempathic; ss.
                                                                                                                                                                                                                                                                                                                                Ji D, Axelrod DW, Gook Js,
                                                                                                                                                                                                                    (PROC ) PROCIER & GAMBLE CO.
                                                                                                                                                                               18 DEC-2001, 2001WO-US48276.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.0057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             65.00
                                                                                                                                                                                                                                                                          (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                      WFI; 2002-557663/59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity:
Query Match:
                                                                                                          WO2002561 A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity
                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                            27 - JUN - 2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABK84552;
                                                                                                                                                                                                                                                                                                                                                   Mertz L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABK84552
```

```
Humman cDNA differentially expressed in granulocytic cells #1123.
```

cardiao roporfusion injury; ronal reperfusion injury; ARDS; adult, repitatory distress syndrone; inframmetory bower disease; crohn's disease; utcertuse colitis; periodontal disease; qrantocyte activation; chronic inflammation; allergy. viral infection; phasific infection; protogal infection; fungal infection; sterile inflammatory disease; psoriasis; rhoumatoid arthritis; glomerulonephritis; asthma; thrombosis; Human, ss. granulocytic cell; DNA chip; bacterial infection;

Homo sapiens

WO200228999-A2.

11-APR-2002.

03-OCT-2001; 2001WO US30821.

03-06T-2000; 2000US-237189P.

(GENE-) GENE LOGIC INC.

Vockley Jr Yamaga S, Weissman SM, Beazer Barclay Y,

WP1; 2002-435328,746

Detecting granulocyte activation by detecting differential expression of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states and drug toxicity

Claim 1; SEQ ID No 1123; 114pp; English.

The invention relates to detecting (MI) granulowyte (GP) activation (GCA), by detecting the level of expression of gene(s) (GS) identified by DMA chip analysis as given in the specification, and comparing the expression level to an expression of GS is indicative of GCA.

Also included are modulating (MZ) GA by contacting GCA with an agent that alters the expression of at least one gene in GS. (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially that alters the expression of at least one gene in GS. (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an alteric response in a subject of a subject to a pathogen or sterile inflammatory disease using the event of expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an alteric response in a subject expression of the gene is indicative of inflammation; (4) treating (M5) an inflammation (especially chronic) or in a tissue, an alteric response in a subject in a particular in a subject glomerulomephrifis, asthma, thrombosis, cardiac reperfusion injury, remainformation injury. ARRS, adult respiratory distress syndrome, inflammatory bowel disease, Crohn's disease, alcerative colitis, periodom al disease, also betterfal infection, viral infection, parasitic infection, protozoal infection, tungal infection and MS is useful for treating one of the above conditions. The present inflammation with an agent that modulates the expression of gene(s) from GS in the tissue. MI is useful for detecting GCA: M2 is useful for modulating GS, M3 is useful for secondary an agent expanse of modulating GCA preferably in an inflammation in a tissue, MA is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile sequence represents a gene differentially expressed in grandlocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic inflammatory disease (e.g. psoriasis, rheumatoid artimitis,

Sequence 3044 BP: 826 A: 687 C: 855 G: 675 T, 1 other,

ttp.wipo.int/pub/published_pct_sequences.

tormat directly from WIPO at

```
1147 AAGGAGGAGTTGATGCTGCGGCTGCAGGACTATCAGGAC 1185
               Conservative:
                                                      1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13
                     Mismatches:
           Matches:
                           indels:
                                 Caps:
                                           US-09-858-070-19 (1-13) x ARK84552 (1-3044)
                                                                                      ABN97223 standard; DNA; 3044 BP.
               100.00%
                                                                                                            13-AUG-2002 (first entry)
    0.0057
                          100 008
          65.00
                     Similarity:
               Percent Similarity
Best Local Similar
Alignment Scores:
                                                                                                 ABN97223;
                          Query Match:
     Š
                                                                            RESULT 6
                                                                                 ABN97223
           Score:
    Pred
```

Gene, liver cancer, ds, hepatocellular catchnoma; hepatotropic; metastatic liver tumou, cytostatic, expression profile; disease state; disease progression; drug toxicity; drug efficacy; drug metabolism.

Gene #3721 used to diagnose liver cancer.

Homo sapiens

W0200229103-A2.

11-APR-2002

82-037-2801; 2001W0-0838589.

u≟-oc:-∠000; 20000S·237054P.

(GENE-) GENE LOGIC INC.

Peres-Da-Silva S, Vockley JG; Horne D, Alvares C,

WFT; 2002 426119/45.

Diagnosing and detecting the progression of liver cancer, hepatoceilular carcinoma or metastatic liver tumor in a patient, involves detecting the level of expression of two or more genes in a liver tissue sample

Claim 1; SEQ 1D NO 3721; 298pp; English.

progression of liver cancer, hepatocellular carcinoma or metastatic liver fundour in a patient, and differentiating metastatic liver cancer from hepatocellular carcinoma in a patient, involving detecting the level of expisasion of two or more genes represented in ANN95503-ANN97455 in a tissue sample. The method of the invention has hepatotropic, and eytostatic activity. The method is useful for diagnosing and detecting the progression of liver cancer, hepatocellular carcinoma and metastatic liver carcinoma in a patient. The method is useful for identifying expression profiles which serve as useful diagnostic markets as well as markets that can be used to monitor disease states, disease progression, drug toxicity, any ellicacy and drug metabolism.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WiFo The invention relates to a novel method for diagnosing and detecting the at ftp.wipo.int/pub/published_pet_sequences

Sequence 3044 BP; 825 A; 587 C; 855 G; 675 T; 1 Other;

Conservative: Length: Matches: 65.00 100 00% 0.0057 Percent Similarity: Alignment Scores:

```
polypeptide campising a partion of an ovarian tumour protein. The sequences of the invention are useful for stimulating an influent response and for treating ovarian canner in a patient. An antique presenting ovarian canner in a patient. An antique presenting cell that expresses the sequences is useful for treating ovarian canner by incubating to the patient. The T cells can then be proliferated and administered to the patient. The T cells can then be proliferated and administered to the patient. The T cells for nucleic acid hybridisation, to direct expression of a polyperide in appropriate host cells. Detecting the presence of a moorer in a patient involves obtaining a biological sample from the patient, contacting the biological sample with an ament, build binds to the patient, detecting the amount of amount of protein to a protein that binds to the adent, comparing the protein to a protein detecting the amount of protein to a protein detecting the presence of cancer. Sequences ABK09464-ABK09802 represent POR primers and cona
                                                                                                                                                                                                                                                                                                                                                     Human; ovarian tumour profesh, cancer, cytostatic, immunostimulant, ss.
gene therapy; CD4+T cell, CD8+T cell, FCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polynocherthy enoughing polynophile supprishing portion of overian tumour protein, useful for detection, diagnosis and therapy of human ovarian cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Secrist H, Lodes MJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to an isolated polynumicotide encoding a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3047 BP; 828 A; 687 C; 856 G; 675 T; 1 other;
 000
                                                                                                                          1 LysGluSluLeaMetLeaArglaaslaAspTyrsluslu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative:
                                                                                                                                                                                                                                                                                                                   Human ovarian tumour protein enceding cDNA #325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dillon DC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Benson DR,
Mismatches:
                Indels
                                                                    US-09-856-070-19 (1-13) x ABN97223 (1-3044)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 269 270; 285pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Harlocker St.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mannion J,
                                                                                                                                                                                                           ABKA9792 standard; cDNA; 2047 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20000US-211457P
2000US-213673P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-MAY-2001, 2001Wn-F91689F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                สุริการ์ - รูกการ์
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20000g-223288P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3001mg-272790p
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.008
                                                                                                                                                                                                                                                                                14-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0057
65 no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Algate PA, Fling SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human ovarian cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (CORI-) CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-997641/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mitcham JL,
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200190154-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24 - MAY - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-JUN-2000;
21-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-AUG-2000:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                ABK09792;
                  Query Match:
                                                                                                                                                                          RESULT 7
                                                                                                                                                                                             ABK09792
```

```
osteopolosis or male osteopolosis, osteoponia, osteodystrophy, drug-induced abnormalities in bone lormation or bone loss, conditions that involve altered bone metabolism (e.g. Adiopathic juvenile osteoponosis), skeletai disease linked to breast cancer, mastorytosis, fanconi syndrome or fibrous dyspiasia, the present sequence is that of an osteoblast differentiation associated cons marker of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Note: The sequence data for this patent did not form part of the printed specific, a, but was obtained in electronic formal directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (a) screening modulators of precursor stem cell differentiation into osteoblasts, or bone tissue deposition;
(b) diagnosing abnormal deposition of bone tissue, abnormal rate of servelast terminismer osteoporosis; or treating or motificing the progression of bone tissue deposition.

Specific conditions include postmenopausal osteoporosis, glucocorticold
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cycles Types and their expression profiles associated with osteoblast differentiation for screening modulators bone formation, for diagnosing of treating edge osteogenosis, or as markers for the differentiation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to genes and their expression profiles are used
                                                                                                                                                                                                                                                                                                                                                                   Homan, osteoblast, stem cell differentiation, bone tissue deposition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jaiswal N, Einstein R, Houghton A;
                                                                                                                                                                                                                                                                                                                                  Human ostechlast differentiation related cDNA SEQ 1D NO 89.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; SEQ ID NO 89; 78pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3072 HP; 846 A; 688 C; 868 G; 670 T; 0 other;
 000
                                                                                                                             1 EyschushulenMet LeuArqLeushlaAspTyrcluslu 13
 Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:
                     Indels:
                                    Gaps:
                                                                       US-09-856-070-19 (1-13) x ABK09792 (1-3047)
                                                                                                                                                                                                                                                                                                                                                                                      osteoporosis; osteopathic; ss.
                                                                                                                                                                                                                  ABQ88182 standard; cDNA; 3072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Axelrod DW, Cook JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-DEC 1000, 10008 USE882P.
24-APR-2001; 20010S-285691P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (PROC ) PROCTER & GAMBLE CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 DEC 2001, 2001WO-US48276
Best Local Similarity: 100.00%
                 100.008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.00576
                                                                                                                                                                                                                                                                                              18 SEP 2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       65.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WP1; 2002-557663/59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          W0200250301-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-JUN-2002
                                                                                                                                                                                                                                                         AHQ88182;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mertz L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      process
                   Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ji D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                                                                                   RESULT 8
                                                                                                                                                                                                         AB088182
```

```
AAC97991 to AAC98761 curvide the human colon cancer associated proteins called human colon cancer antiques, given in AAB$324 to AAB$406. The human colon cancer antiques can have cytostatic, cardiagnetive, muscular; neuroprotective immunomedulatory gynaecological, gastrointestinal, vulnetary, nephrotropic, antiinfective and antibacterial activities, and can be used in gene therapy. The colon cancer antique prevention does, proteins and antibodies to the proteins are useful for the proteins are used antibodies to the proteins are useful for the proteins and antibodies to the proteins are useful for the proteins are useful.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diseases, and cardiovasculur disorders. ANY98764 to ANY98722 and AAB54007 represent sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Colon cancer associated gene sequences, referred to as eason cancer autidens, useful for the treatment, prevention, and diagnosis of colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; colon cancer; colon cancer antiqen; diagnosis; detection;
identification; cytostatic; cardioactive; neuroprocetive; yulnerary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polynucleotides may be used in diagnostics and research, such as for chromosome identification, and as bytchicids for properties many also be used to provent discasses such as regral disorders, immuno system disorders, muscular disorders, reproductive disorders,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunomodulatory; muscular; qynaecological; gastrointestinal; nephrotropic; antiintective; autibacterial; gene therapy; wound; neural disorder; immune system disorder; muscular disorder; reproductive disorder; gastrointestinal disorder; reproductive disorac; gastrointestinal disorder; reproductive disorac; gastrointestinal disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               disorders, infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human colon cancer antiqen nucleotide sequence SEQ ID NO:123.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3115 MP: 873 A; 696 C; 872 C; 670 I; 4 other;
    0000
                                                                                                                                                                                                                                                                                                          Conservative:
Mismatches:
                                                                                                                                                                                                                                                                      l LysGluGluLeuMetLeuArqLeuGlnAspTyrGluGlu 13
                                                                                Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           dastrointestinal disorders, wentels, renai-
                                                                                                                                                                                         US 09.856-070-19 (1-13) x ABQ88182 (1-3072)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1: Page 559-560: 2184pp: English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAC98114 standard; cDNA; 3115 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disorders such as colon cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HUMA:) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-MAR-1999; 99US-0124270.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAP-2000; 2000W0-HS05883
                                    100.00%
                                                                                100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (lirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rosen CA, Ruhen SM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000 587534755
                                    Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P-PSDH; AAB53356.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W0200055351 A1.
    Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-SEP-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAC98114;
                                                                        OHERY Match:
                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAC'9811
```

Length.

0.00585

Aliqument Scores:

Pred. No.:

```
Human immune/hacmatopoietic antigen genomic sequence SEQ 1D No.25349.
                                                                                                                                                                                                                     Human, immune, baematopoletic, immune/baematopoletic antiden, cancer,
 -0200
                                                                                       cytostatic; gene therapy; vaccine; metastasis; ds.
                                                                             1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13
          Conservative:
Mismatches:
 Matches:
                               indels:
                                                         US-09-856-070-19 (1-13) x AAC98113 (1-3115)
                                                                                                                                       AAK70537 standard: DNA: 11445 BP
                                                                                                                                                                                                                                                                                                                                                                                             2000US-0205515.
2000US-0209467.
2000US-0214886.
                                                                                                                                                                                                                                                                                                                                                                  2000US-0189874.
2000US-0190076.
2000US-0198123.
                                                                                                                                                                                                                                                                                                                                                                                                                                                20000US-0216890.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-0220963.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-0218290.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                75759.
                                                                                                                                                                                                                                                                                                                                       2000US-0180628.
2000US-0184664.
                                                                                                                                                                                                                                                                                                                                                           2000005-0186350
                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0215145.
2000US 0216647.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0217487.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0217496.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  200005-0224519.
200005-0225213.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000008-0225214
                                                                                                                                                                                                                                                                                                          17-JAN-2001; 2001WO-US01354
                                                                                                                                                                                                                                                                                                                            2000US-0179065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US 0224518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              200005 0225266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000005-0225268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-0225447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20000US-0225758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200005-0226681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0225267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20000US 0225757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20000s 0226279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10000S 0116868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2800005-0227182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        200000S-0229344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000005-0229345
          100,00%
                               100.008
                                                                                                                                                                            06-NOV-2001 (lirst entry)
                   100.008
65.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0000E-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000018-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 são 668
                  Hest Local Similarity!
Query Match:
                                                                                                                                                                                                                                                                  W0200157:82 A2.
         Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                              19-MAY-2000; 207-JUN-2000; 28-JUN-2000; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 - AUG - 2000)
18 - AUG - 2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-A8G 2000;
22-A8G 2000;
22-A8G-2000;
                                                                                                                                                                                                                                                                                                                                                         02-MAR-2000;
16-MAR-2000;
17-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 - AUG - 2000;
14 - AUG - 2000;
14 - AUG - 2000;
                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000;
                                                                                                                                                                                                                                                                                                                                                                                     18-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                            30-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUL-2008;
                                                                                                                                                                                                                                                                                                                                                                                                                                               2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-AUG-2000;
30-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-SEP-2000;
                                                                                                                                                                                                                                                                                                                                      04-FEB-2000;
24 FEB 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-SEP-2000;
                                                                                                                                                                                                                                                                                      09-AUG-2001
                                                                                                                                                           AAK70537:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                07*.1111.-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14 - AUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4-AUC-
                                                                                                                             AAK70537/C
                                                                                                                    RESULT 10
```

```
2000US - 0249209
2000US - 0249210
2000US 0249211
2000US 0249213
2000US 0249213
2000US - 0249214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200003-0234223
200003-0234274
200003-0234947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0137038.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20000S 0236370.
20000S-0236802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200008 0237039.
200008 0237046.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000018-02399937
2000018-0240940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000008-0241785.
200008-0241786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      200005-0241808
200005-0241809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   203005 0246610.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200mus-0246613.
2000ms-0249207
                                                                                                                                         2000018-0331243
2000018-0231344
                                                                                                                                                                                                                                                                                                                                                                                 2000US 0232344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2006US-0134998.
2006US-0135484.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100005-0235834
200005-0135836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000mg-0236368.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000005-0237037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $866+70-Stagos7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTY 0241787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US 0241826.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000008-0246474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000us 0245476.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000ms 0.46477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900001S-0246478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0246523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20000S 0246526.
20000S-0246527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-024652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000ms A246532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0249208
                                                             7 $ $0.550 - $1000 to
                                                                                   85.003.003
                                                                                                             9000 grange
                                                                                                                                                                                                                                             200015-0232080
                                                                                                                                                                                                                                                                                                   2000015-024146X
                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000115-0233063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    00005 0236327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             とりとうとこの・名田の母の
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6989830 SHOODS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000005 0246475
                                                                                                                                                                                                                       2000015-0231414
                                                                                                                                                                                                                                                                                                                            200005-0232397
                                                                                                                                                                                                                                                                                                                                                                                                                                   0.00005 - 0.232403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000ms-0233064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000015-0233065
                                                                                                                                                                                              11112-3110002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US:0241221
                                                                                                                                                                                                                                                                                                                                                        000016-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $...000
                                                                                                                                                                                                                                                                            300000
05 - SEP - 2000 | 2 | 06 - SEP - 2000 | 1 | 06 - SEP - 2000 | 1 | 06 - SEP - 2000 | 2 | 
                                                                                                                                                                                                                                                                                                                                                                         14-SEP-2000; 2
14-SEP-2000; 2
14-SEP-2000; 2
14-SEP-2000; 2
14-SEP-2000; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-001-2404) 2
02-001-2000; 2
02-001-2000; 2
02-001-2000; 2
02-001-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.8 - W.V. - 2000 | 1.0 - W.V. - 2000 | 1.1 - 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-cc1-2000;
20-ccT-2000;
20-ccT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-00T-2000
20-00T-2000
20-00T-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -SEP-2000;
SEF 2000;
                                                                                                                                                                                                                                                                                                   12-SEP-2000;
14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17 - NOV - 2
17 - NOV - 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-00T-
```

```
ANK54951 Lo AAK64702 encode the human immune/haematopoietic antiqen (1) and sequences given in AAM82176 to AAM9122. (1) have extostatic actif sequences given in AAM82176 to AAM9122. (1) have extostatic actification and polymediculties may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (1) expression. For example, they may be used to treat disouders associated with decreased expression by sectifying mutations or deletions in a patient's genome that affect the actifying mutations or deletions in a patient's genome that affect the actifying mutations or deletions in a patient's genome that affect the actifying mutation of (1). Additionally, (1) supplement the patients own production of (1). Additionally, (1) perfects may be used to product or consistent of the express the protein. (1) proteins and polymelevitides may be used to prevent, diagnose and treat immuneyheamatopoietic distance relating actions and concern metals and encount immuneyheamatopoietic daried ells. AAK64703 to AAK87630 and AAM82169 sequences from the present ingention. AAK87650 and AAM82169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              represent sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acids encoding human immane/hematopoiethe antigen polypeptides, useful by preventing, diagnosing and/or treating cancers and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure, STÖ 10 NO 25349, 3071pp / Sequence Histing, Luglish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 11445 BF, 2857 A, 3157 C, 2738 G, 2743 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11445
13
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Souther satisfies
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 LysGluGluLenMetLeuArgLeuSinAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ichgth.
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Caps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03 00-856-970 19 (1 13) x AAR70537 (1-11445)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rosen CA, Batash SC, Kuben SM
                                                                                  200005 0245241
200005 0249245
200005 0249264
200005 0249264
200005 0249205
200005 0249300
200005 0250160
                                                                                                                                                                                                                                                                                                                                                                                             cocus 0256719.
cocus 0251479.
cocus 0251856.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US 0251868.
2000US-0251869.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     269008-9251989.
263008-9251990.
                                                                                                                                                                                                                                                                                                                   0250391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.0263
65.60
196.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.00%
                                                                                                                                                                                                                                                                                                                                     200003
200003
200003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WFI, 2001 483426,52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   200002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Percent Similarity,
Best Local Similarity
                                                                                                                                                                  17.7.N.V. 29.6.1
17.7.N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ...tastasis -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alignment Scores.
17 - R-V
17 - NOV
17 - NOV
17 - NOV
17 - NOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 11
```

AAS93352 standard; cDNA; 1447 BP

AAS93352 ID AAS9

```
polypeptide (II) sequences. (I) is useful as hybridisation probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, and for chromosome and quoe mapping, and in recombinant production of (II). The polynucleotides are also used in disapmostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The polypeptide and polynucleotide sequences have applications in diagnostics, torensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic formal directly from WIPO at Itp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Imaging of sites expressing (11). (1) and (11) are useful for treating disorders involving aberrant protein expression or biological activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and to produce other types of data and products dependent on DNA and amino acid sequences, AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.
                                                                                                                                                                                                                                                                                 Human; chromosome mapping; gene mapping; gene therapy; forensic; food suppicment; medical imaging; diagnostic; genetic disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated polynucleotide and encoded polypeptides, useful in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to isolated polynucleotide (I) and
                                                                                                                                                                                      DNA engoding novel human diagnostic protein #29156.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID No 29156; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-MAK-2001; 2001WO-0508631.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41-MAR-2000; 2000US-0540217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-AUG 2000; 2000US 0649167
                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001 649362/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    brmanac RT, Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P-PSDB; ABG29165.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           biodiversity
                                                                                           14-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-ocr-2001.
AAS93352;
```

 SQ
 Sequence 1447 BP; 347 A; 356 C; 383 G; 361 T; 0 other;

 Alignment Scores:
 159
 Length: 1447

 Score:
 41.00
 Matches: 8

 Score:
 41.00
 Matches: 8

 Performance:
 30.91%
 Conservative: 2

 Performance:
 1
 72.73%

 Performance:
 1
 64.08%

 Powery Match:
 2
 64.08%

 PBB:
 4
 6aps:

US:09-856-070-19 (1-13) x AAS93352 (1-1447)

US-09-856-070-19 (1-13) x ARORRIAD (1-66494)

Conservative: Mismatches:

Indels:

Length: Matches:

1.24e + 04

84.628 61.548 63.088

Similarity:

Best Local S Query Match:

Percent Similarity:

Aliqnment Scores:

```
(c) treating or monitoring treatment of the conditions cited in (b), or monitoring the progression of bone tissue deposition.

Specific conditions include postmenopausal osteoporosis, quicocorticoid as reoporasis or male esteeperosis, osteoperia, osteoperia, drug-induced abnormalities in bone lormation or bone loss, conditions that invoive altered bene metabolism (e.g. idiopathic juvenile osteoperosis), skeletal disease linked to breast cancer, massorytosis, fanconi syndrome or fibrous dysplasia. The present sequence is that of an osteoblast differentiation associated cDNA marker of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of genes and their expression profiles associated with osteoblast differentiation for screening medulators bone formation, for diagnosing or treating e.g. osteoporosis, or as markers for the differentiation
                                                                                                                                                                       Human; osteoblast; stem cell differentiation; bone tissue deposition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to genes and their expression profiles are used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          screening modulators of precursor stem gell differentiation into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             osteoblasts, or hone tissue deposition;
(b) diagnosing abnormal deposition of hone tissue, abnormal rate of
osteoblast formation or osteoporosis; or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Houghton A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seguence 66494 HP; 17680 A; 13908 C; 14466 G; 20440 T; 0 other;
                                                                                                                                    Human osteoblast differentiation related cDNA SEQ 1D NO 47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 47; 78pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ji D, Axelrod DW, Cook JS, Jaiswal N, Einstein R,
Mertz L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        at ftp.wipo.int/pub/published_pct_sequences.
                ABQ88140 standard; cDNA; 66494 BP.
                                                                                                                                                                                              osteoporosis; osteopathic; ss.
                                                                                                                                                                                                                                                                                                                                                                                           2000US 255882P.
2001US 285691P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (PROC ) PROCTER & GAMBLE CO.
                                                                                                                                                                                                                                                                                                                                                      18-DEC-2001; 2001W9-US48276
                                                                                             18-SEP-2002 (lirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GENE-) GENE LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI: 2002-557663/59.
                                                                                                                                                                                                                                                                         WG200250301 A2
                                                                                                                                                                                                                                                                                                                                                                                         18-DEC-2000;
                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                24 - APR-2001;
                                                                                                                                                                                                                                                                                                                27 - JUN - 2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          process
ABQ88140/c
```

```
RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
Human; foetal liver; gene expression, single exon nucleic acid probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                        measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form pail of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                              Human genome-derived single exectuation acid probes usuful for analyzing gene expression in human fetal liver
                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a single exon nucleic acid probe tor
                                                                                                                                                                                                                                                                                                                                                                          Claim 4; SEQ ID NO 22394; 639pp + sequence listing, English.
                                                                                   Human foetal liver single exon nucleic acid probe #22394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 224 BP: 58 A: 64 C: 45 G; 58 T; D other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LysGluGlaLenMe!LenArgLenGlnAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    indels:
                                                                                                                                                                                                                                                                                                         Chen W, Rank DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-856-070-19 (1-13) x ARA74089 (1-224)
                         ABA74089 standard: DNA; 224 BP.
                                                                                                                                                                                                                                                                                     (MOLE-) MOLPCULAR DYNAMICS INC
                                                                                                                                                                                                      200005-0180312
200005-0207456.
200005-0608408.
                                                                                                                                                                                                                                                        200005-0236359.
206008-0424263
                                                                                                                                                                                                                                     9987830-35600
                                                                                                                                                                                                                                             200005-0234687.
                                                                                                                                                                                   30-JAN-2001; 2001WO-US00669
                                                                01-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               84.62%
53.85%
61.54%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-NOV-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24.6
40.00
                                                                                                                                                                                                                                                                                                       Penn SG, Hanzel DK,
                                                                                                                                                                                                                                                                                                                            WPI: 2001-483447/52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAK22545 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
                                                                                                                                            W0200157277-A2
                                                                                                                                                                                                                                    03-AUG-2000;
21-SEP-2000;
27-SEP-2000;
04-0GT-2000;
                                                                                                                           Homo sapiens
                                                                                                                                                                                                       04 - FEB - 2000;
                                                                                                                                                                                                                 26-MAY-2000;
                                                                                                                                                               09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aliqument Scores
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAK22545;
                                            ABA74089;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAK22545/C

ID AAK225

XX

AC AAK225

XX

DT 05-NOV
              ABA74089/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
      RESULT 13
```

â

```
The present invention provides a number of Single exon nucleic acid probes which are derived from genomic sequences expressed in the human briain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatments revious system diseases such as Altheimer's disease, multiple scherosis, servicebinents, epilepsy and cancers. The present sequence is one of the probes of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Himman, löetal liver, gene expression, single exon nuclein acid probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Single expression acid probes for analyting gene expression in human
                                             Human, brain expressed exon, gene expression analysis; probe; microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prese, 65/pp - Sequence Listing, English.
Human brain expressed single exon probe SEQ ID NO: 22536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human foetal liver single exon nucleic acid probe #9897.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 224 BF, 58 A, 63 C, 45 G, 58 I, 0 other,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 LysGluGluLeuMetLeuArqLeuGlnAspTyrGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57 AAGCAGAATCTGTTGCTGGAACTCCGGAACTATGAGGAA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inde is:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chen W. Kank DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-856-070-19 (1-13) x AAK22545 (1-224)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MOLE ) MOLECULAR DYNAMICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABA61532 standard, DNA, 520 BP
                                                                                                                                                                                                                                                                                                                                                                         26-MAY-2000; 2000US-0207456.
                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0632366.
2000US-0234687.
2000US-0236359.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000GB-0024263.
                                                                                                                                                                                                                                                                                                                                                      266608-6186312.
                                                                                                                                                                                                                                                                                                      30-JAN-2001: 2001W0-US00667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24.6
40.00
84.62%
53.85%
61.54%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SET IN NO
                                                                                                   epilepsy; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Febru 3G, Hatizel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WII. 2001 483446/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                  W0200157275-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W0200157277 - A2
                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                    64 - P.EK-2060;
26 - MAY - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                  03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-SEF-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-0CT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                        u9-AuG-∠uú1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Exaction 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABA61592;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                brains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA61592/C
```

```
WAY ANG-2001.

XX XX XX G. Jan. 2001b. 2001b. G. 2000b. G. 2000b. 2000b.
```

Alignment Scores: 66.1 Length: 520
Pried. No.: 40.00 Matches: 7
Percent Similarity: 84.62% Conservative: 4
Best Local Similarity: 55.85% Mismatches: 2
Query Match: 61.54% Indels: 0
DH: 22

US 09:856-070 19 (1-13) x ABA61592 (1-520)

Search completed: January 16, 2003, 17:19:45 Job time: 218.954 secs